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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/920,227	(	08/01/2001	Laura J. Ball	SP01-193	5308	
22928	7590	10/21/2003		EXAMINER		
CORNING SP-TI-3-1	INCORF	ORATED	VINCENT, SEAN E			
CORNING.	NY 148	31	ART UNIT	PAPER NUMBER		

1731
DATE MAILED: 10/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

· ·			1.
	Application No.	Applicant(s)	U
	09/920,227	BALL ET AL.	
Office Action Summary	Examiner	Art Unit	
	Sean E Vincent	1731	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence addres	is
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a within the statutory minimum of thi will apply and will expire SIX (6) MOI cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this commu  BANDONED (35 U.S.C. § 133).	nication.
1) Responsive to communication(s) filed on <u>02 S</u>	September 2003 .		
2a)☐ This action is <b>FINAL</b> . 2b)☑ Thi	is action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under a Disposition of Claims			erits is
4)⊠ Claim(s) 1-23 is/are pending in the application	l <b>.</b>		
4a) Of the above claim(s) <u>16-23</u> is/are withdraw	n from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-15</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examiner	r.		•
10)☐ The drawing(s) filed on is/are: a)☐ accep	oted or b)  objected to by t	the Examiner.	
Applicant may not request that any objection to the	• , ,	` '	
11)☐ The proposed drawing correction filed on		disapproved by the Examiner.	
If approved, corrected drawings are required in rep	•		
12) The oath or declaration is objected to by the Exa	aminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)□ All b)□ Some * c)□ None of:			
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.		
<ol><li>Certified copies of the priority documents</li></ol>	s have been received in A	application No	
<ul> <li>3. Copies of the certified copies of the prior application from the International Bur</li> <li>* See the attached detailed Office action for a list of the certified copies of the prior application from the prior application for a list of the certified copies of the prior application from the prior ap</li></ul>	reau (PCT Rule 17.2(a)).		je
14)☐ Acknowledgment is made of a claim for domestic			olication).
a) ☐ The translation of the foreign language pro- 15)☐ Acknowledgment is made of a claim for domesti			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152	

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### **DETAILED ACTION**

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#### Election/Restrictions

1. Applicant's election without traverse of claims 1-15 in Paper No. 6 is acknowledged.

Claims 16-23 are hereby withdrawn from consideration.

## Claim Objections

2. Applicant is advised that should claim 4 be found allowable, claim 10 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k). Likewise, claim 14 is a substantial duplicate of claim 5.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 2 and 4-15 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Le Sergent (US 5,194,714). Le Sergent teaches at col. 2, lines 35-62:

"As shown in FIG. 1, a piping means 1 is used to introduce <u>silicon</u> <u>tetrachloride</u> into an evaporator 2, kept at a temperature as constant as possible. The vaporized silicon tetrachloride passes through a heater 3, then through a flow controller 4 and a piping means 4A. At the same time, a

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fluorine-containing gas such as <u>dichlorodifluoromethane</u>, issuing from a bottle 5, flows via a a pressure controller 6 and a flow controller 7 to a piping means 10 joining with the silicon tetrachloride gas feed piping means 4A and likewise a stream of oxygen arriving via a piping means 8 and a flow controller 9. The reagent gases are heated in a heater 11, then flow via the piping means 12 to the injector 12A <u>bringing the reagent gases into contact with the plasma and the mandrel to be coated with a layer of fluorine-doped silica.</u>

Also, a plasmagene gas, such as oxygen, nitrogen or argon, is introduced into a torch 13 the end whereof is surrounded by a coil 14 supplied with *high-frequency* current by the generator 15. The ionized gas plasma at high temperature forms a jet 16 that impinges on the periphery of the mandrel 17. The latter rotates about its axis and is driven by a rig 18 in smooth translation in a direction perpendicular to the plasma and reagent gas deliveries. The mandrel, the torch and the reagent gases injector are arranged in a *closed chamber 19 connected on the one hand to a dry air delivery nozzle* 20 and on the other hand to a residual gas discharge pipe 21, connected to an exhaust gases cleaning installation. "

At col. 3, lines 31-38, Le Sergent teaches:

"Such an air processing line allows air with <u>a residual water vapor</u> <u>content not exceeding one part per million by volume to be obtained.</u> The invention accordingly makes it possible to effect silica deposits, either doped or not, with hydroxyl ion concentrations of less than 1 ppm and typically of the order of 0.1 ppm, usable for the manufacture of optical fibers with very low linear attenuation coefficients. "(emphasis added)

5. Claim 3 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Guerder et al (US 4,367,013). The abstract of Guerder et al teaches:

"A process is described for making a doped-silica ingot useful in the manufacture of optical fibers. At least a <u>silicon compound and a titanium</u> compound are decomposed in the flame of the induction plasma burner in the presence of a determined supply of hydrogen and are reacted with the oxygen contained in the burner feed gas and/or in the vector gas to form SiO.sub.2 and H.sub.2 O against a heat-stable support. As a result silica and titanium oxide are deposited on the support in the form of a homogeneous vitreous mass exhibiting a selected concentration of hydroxyl groups between 10 and 50 parts per million. Fluorine-doped silica is deposited radially in the same way on the resulting ingot. The resulting semifinished product is a cylinder

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consisting of a titanium-doped silica core, whose TiO.sub.2 concentration by weight is about 0.1 to 8%, covered by a sheath of fluorine-doped silica, whose fluorine concentration is about 0.1 to 3%. "(emphasis added)

#### Conclusion

- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean E Vincent whose telephone number is 703-305-3607. The examiner can normally be reached on M F (8:30 6:00).
- 7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven P Griffin can be reached on 703-308-1164. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.
- 8. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Sean E Vincent Primary Examiner Art Unit 1731

S Vincent

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